

August 2014

## Symetrix GPIO Overview

- *Setting up analog volume knobs and switches.*
- *LED clipping indicators for visual feedback.*
- *Triggering a power sequencer at 6AM every day.*

These are just a few of the many things that can be accomplished with Symetrix hardware. All of our DSP units provide some degree of General-Purpose Input/Output (GPIO) via the External Control Inputs and Logic Outputs.

This document provides a side-by-side comparison of the GPIO counts for each piece of current Symetrix hardware, so you can spec the right gear for the job.

Keep in mind that each individual External Control Input can either be configured to use a 10K potentiometer as its input, or two switches.

For full details and walkthroughs on integrating GPIO, see the below Tech Tips from our website:

[How to Integrate External Control Inputs on Symetrix DSP Hardware](#)

[Integrating Logic Output Circuits into your Installation](#)

Hardware (links to datasheet)	External Control Inputs	Logic Outputs
<a href="#">Edge</a>	8 switches / 4 pots	8
<a href="#">Radius 12x8</a>	8 switches / 4 pots	8
<a href="#">Radius AEC</a>	8 switches / 4 pots	8
<a href="#">xControl</a>	16 switches / 8 pots	16
<a href="#">Solus (all models)</a>	4 switches / 2 pots	4
<a href="#">Jupiter (all models)</a>	4 switches / 2 pots	4
<a href="#">761</a>	4 switches / 2 pots	4

